

PUBLICATION NUMBER : 10035090
 PUBLICATION DATE : 10-02-98

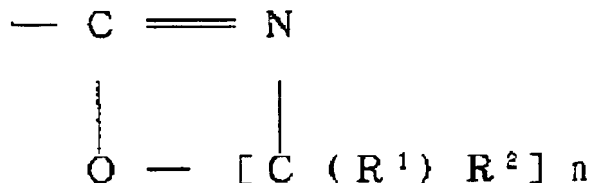
APPLICATION DATE : 17-07-96
 APPLICATION NUMBER : 08207950

APPLICANT : SANYO CHEM IND LTD;

INVENTOR : UENO YOSHIYUKI;

INT.CL. : B41M 5/00 // B05D 5/04

TITLE : WATERPROOFING AGENT
 COMPOSITION FOR INK JET
 RECORDING SHEET



ABSTRACT : PROBLEM TO BE SOLVED: To achieve both the enhancement of waterproofness of an image and the reduction of feathering using one kind of agent under ordinary paper making conditions by adding a support with a macromolecular material produced through reaction of a polymer having a specified functional group and a crosslinking agent having a functional group shown by a specified structural formula.

SOLUTION: Examples of the monomer contained in a carboxyl group or an anhydride group molecule forming a polymer include acrylic acid, itaconic acid, etc., and those of the monomer containing an amino group or a quaternary ammonium salt group include acrylamide, aminoethyl acrylate, etc. A crosslinking agent comprises a compound containing at least two functional groups shown by general formula [R¹ and R² represent hydrogen, 1-8C alkyl group, allyl group or halogen independently, and n is 2 or 3]. Mixing ratio of the polymer and the crosslinking agent is optimally set so that the functional group in the crosslinking agent is on the order of 0.8-1.2 for 1 equivalent of the carboxyl group or the anhydride group in the polymer.

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